SINGLE-LAYER SANITARY EXPLOSION VENT

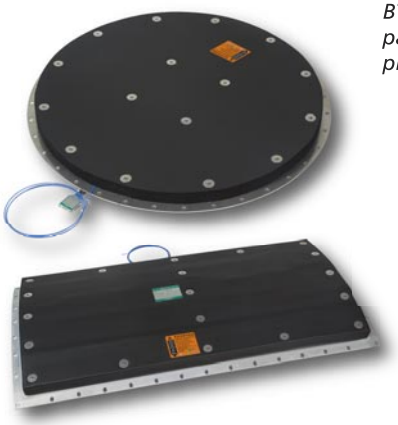
EX-GO-VENT-HYP

...versatile implementation in hygienically demanding areas

Most production facilities create dust as a byproduct and are under an obligation per OSHA's National Emphasis Program and NFPA Standards, to reduce the risks of a dust explosion. ATEX 114 (Directive 94/9/EG), EC type-tested explosion panels offer an economic solution and, in the event of a dust explosion, the explosion pressure is reduced to a harmless residual pressure level within the plant.

In addition to safety/technical requirements, demands are placed on explosion panel protection systems to assure that their design and function does not conflict with the actual objective of the product's quality assurance. Since every protection system is connected to a container to be protected, the risk of undesired product contamination is a concern due to the accumulation of possible sediment. This risk should always be taken into consideration when designing/engineering plants that will process food or pharmaceuticals.

To address this requirement, the EX-GO-VENT-HYP flat explosion panel has been specifically designed for hygienically demanding applications found in the food processing and pharmaceutical industries. The smooth surfaces, in connection with the patented, full surface and tapered sealing concept, enable the application of these special explosion panels on critical plant equipment such as spray-dryers with/without wet cleaning, fluidized bed dryers, filters and mixers. To ensure wide-spread acceptance of this application in operational practice, the design of the EX-GO-VENT-HYP is based on the strict criteria of EHEDG (European Hygienic Engineering & Design Group).



BT-SK-EX-GO-VENT-HYP-FL special explosion panel for applications in industries of food processing and pharmaceuticals

Safety and Profitability

Since the EX-GO-VENT-HYP can be integrally molded to the container's radius, it is also ideal for installation on cylindrical containers - this eliminates any dead space.

With the optionally available closed-cell silicone cushion insulation for outdoor plants, any accumulation, caused by below dew point temperatures, is prevented. Loss of temperature and energy are reduced to a minimum.

The special EX-GO-VENT-HYP explosion panel, with its sanitary design, improves product quality and simultaneously protects the entire process from contamination and production downtimes caused by explosions.

Technical Data			
EX-GO-VENT-HYP - rectangular shaped explosion vent			
Max. Dimensions of Wall Opening = Nominal Venting Dimensions		Effective Vent Area	
[in]	[mm]	[sq in]	[cm²]
12.0 x 24.0	305 x 610	288.3	1860
19.3 x 23.2	490 x 590	448.0	2890
18.0 x 35.0	457 x 890	635.5	4100
23.1 x 36.2	586 x 920	837.0	5400
24.0 x 44.0	610 x 1118	1054.0	6800
36.2 x 36.2	920 x 920	1317.5	8500
39.4 x 39.4	1000 x 1000	1550.0	10000
36.0 x 44.0	915 x 1118	1585.7	10230
40.2 x 40.2	1020 x 1020	1612.0	10400
EX-GO-VENT-HYP - round shaped rupture disc			
Max. Dimensions of Wall Opening = Nominal Venting Dimensions		Effective Vent Area	
[in]	[mm]	[sq in]	[cm²]
24"	DN 600	387.5	2500
28"	DN 700	542.5	3500
32"	DN 800	713.5	4600
36"	DN 900	914.5	5900
40"	DN 1000	1147.0	7400
44"	DN 1100	1387.0	8950
48"	DN 1200	1550.0	10000
52"	DN 1300	1937.5	12500
56"	DN 1400	2325.0	15000
Standard bursting pressure pstat = 14.5 psig @ 71.6 °F (0.1 barg @ 22 °C)			
Other operational conditions, such as higher operating pressure, vacuum, pulsation and temperature on request			

CUSTOMER BENEFITS

- High venting efficiency
- Hygienic installation
- Safeguarding / increasing product quality